

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P402567

Luminaire Tested: **GAN-AF-01-LED-U-5MQ-AMB**

Issue Date: 6/8/2020

Test Information

Test Method: LM-79-08
Report Number: P402567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-3)
Test Lab: INNOVATION CENTER
Issue Date: 6/8/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-5MQ-AMB
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1298 lumens
Efficiency: N/A
Efficacy: 57.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B1 - U0 - G0

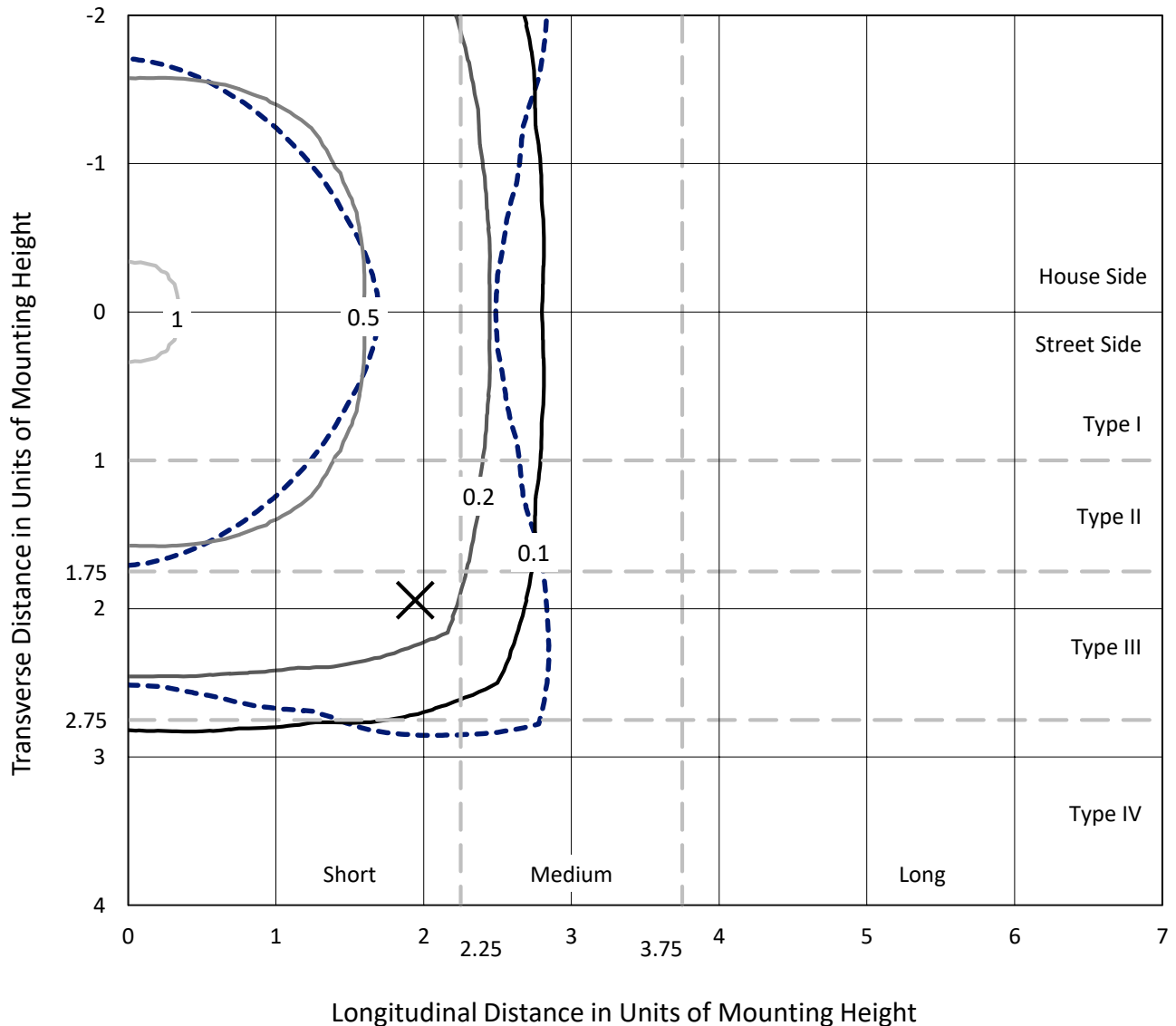
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

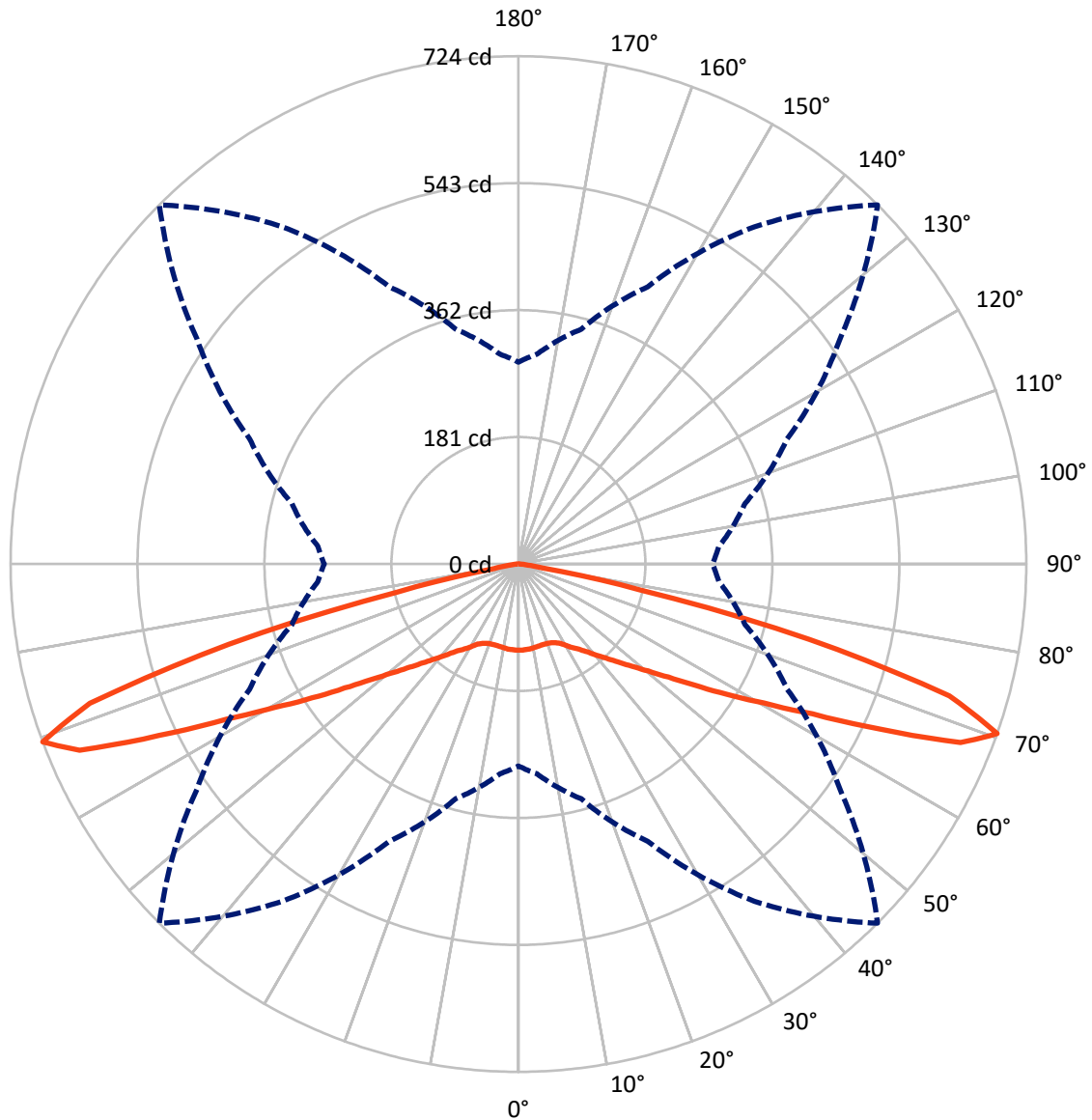
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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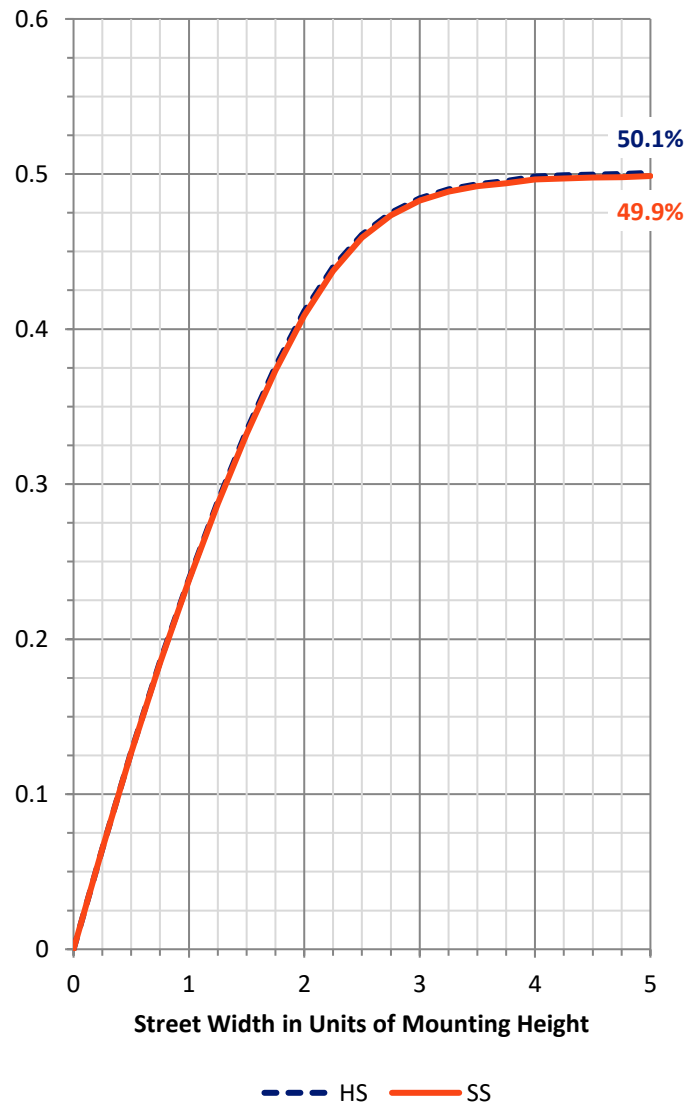
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 649.0 | 0.0 | 649.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 649.0 | 0.0 | 649.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 1298.0 | 0.0 | 1298.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 11.7 | 0.9 |
| 10°-20° | 33.9 | 2.6 |
| 20°-30° | 57.4 | 4.4 |
| 30°-40° | 94.1 | 7.3 |
| 40°-50° | 157.4 | 12.1 |
| 50°-60° | 276.3 | 21.3 |
| 60°-70° | 454.0 | 35.0 |
| 70°-80° | 204.7 | 15.8 |
| 80°-90° | 8.5 | 0.7 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 1298.0 | 100.0 |
| 0°-180° | 1298.0 | 100.0 |



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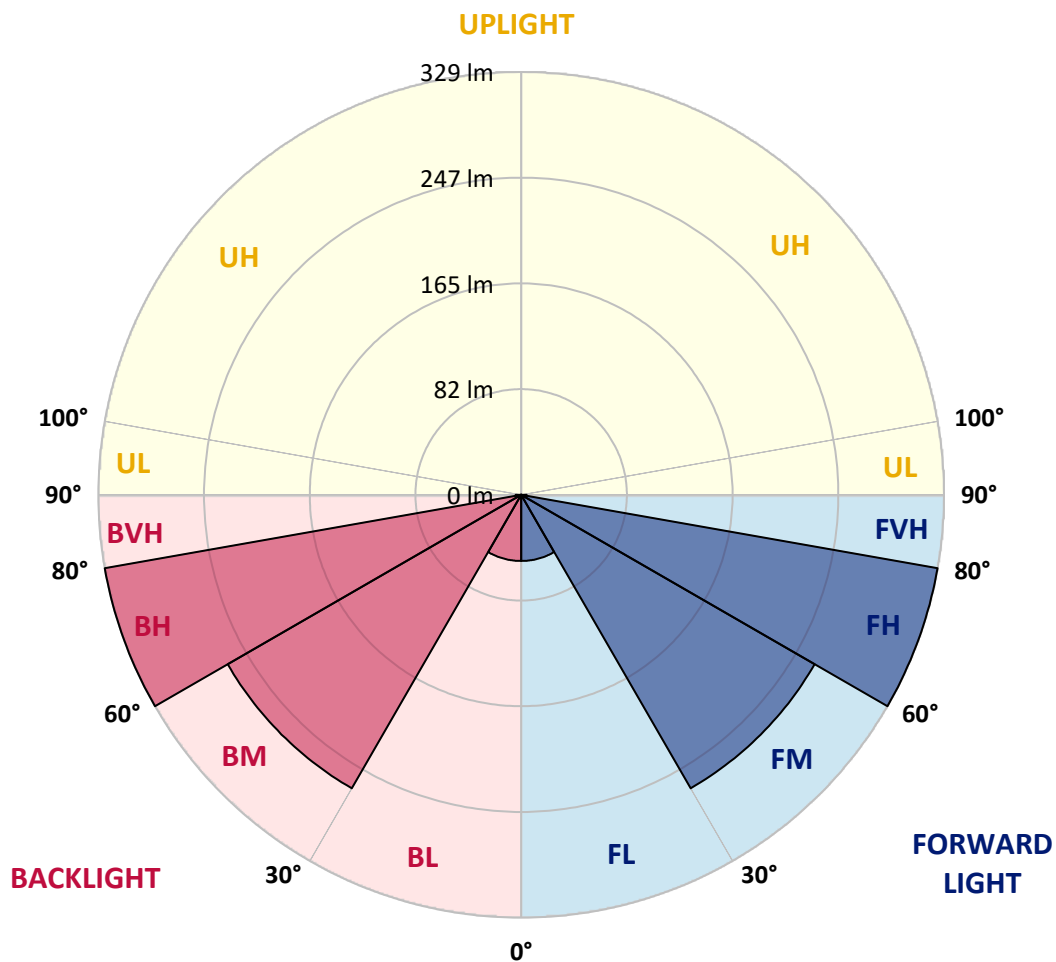
CATALOG NUMBER: GAN-AF-01-LED-U-5MQ-AMB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 51.5 | 4.0 | | | |
| FM (30°-60°) | 263.9 | 20.3 | | | |
| FH (60°-80°) | 329.3 | 25.4 | | | G0/660 |
| FVH (80°-90°) | 4.3 | 0.3 | | | G0/10 |
| BL (0°-30°) | 51.5 | 4.0 | B0/110 | | |
| BM (30°-60°) | 263.9 | 20.3 | B1/1000 | | |
| BH (60°-80°) | 329.3 | 25.4 | B1/500 | | G0/660 |
| BVH (80°-90°) | 4.3 | 0.3 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 |
| 2.5° | 123.3 | 123.3 | 123.3 | 123.3 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 |
| 5° | 123.3 | 123.3 | 123.3 | 122.8 | 122.8 | 122.3 | 122.8 | 122.3 | 122.3 | 122.3 | 122.8 |
| 7.5° | 123.3 | 123.3 | 123.3 | 122.8 | 122.8 | 122.3 | 122.3 | 121.8 | 121.8 | 121.8 | 121.8 |
| 10° | 121.8 | 121.8 | 121.8 | 121.8 | 121.8 | 121.2 | 121.2 | 120.7 | 120.7 | 120.7 | 120.7 |
| 12.5° | 120.2 | 120.7 | 120.2 | 120.2 | 120.7 | 120.7 | 120.2 | 119.6 | 119.1 | 119.1 | 119.6 |
| 15° | 119.1 | 119.1 | 119.1 | 119.1 | 120.2 | 120.2 | 120.2 | 119.1 | 118.6 | 118.6 | 118.6 |
| 17.5° | 118.1 | 118.1 | 118.1 | 119.1 | 119.6 | 120.2 | 119.6 | 119.1 | 118.6 | 117.5 | 117.5 |
| 20° | 117.5 | 117.5 | 118.1 | 119.1 | 120.2 | 120.7 | 120.7 | 119.6 | 118.6 | 117.5 | 117.5 |
| 22.5° | 117.5 | 117.5 | 118.6 | 120.2 | 121.2 | 121.8 | 121.8 | 120.7 | 119.6 | 118.6 | 118.6 |
| 25° | 119.6 | 119.1 | 120.2 | 122.3 | 123.9 | 124.4 | 124.9 | 123.3 | 121.8 | 120.7 | 120.2 |
| 27.5° | 122.8 | 123.3 | 124.4 | 126.5 | 128.6 | 128.1 | 128.6 | 127.6 | 126.5 | 124.9 | 124.9 |
| 30° | 129.2 | 129.2 | 130.8 | 132.9 | 134.5 | 135.0 | 135.0 | 133.9 | 132.3 | 131.3 | 130.8 |
| 32.5° | 136.6 | 136.6 | 138.2 | 140.8 | 141.9 | 142.4 | 141.9 | 140.8 | 138.7 | 137.1 | 136.6 |
| 35° | 144.0 | 144.0 | 146.1 | 149.3 | 150.3 | 149.3 | 149.8 | 148.8 | 147.2 | 146.1 | 145.6 |
| 37.5° | 153.0 | 153.0 | 155.6 | 158.3 | 159.9 | 158.8 | 160.4 | 159.9 | 157.8 | 156.7 | 156.2 |
| 40° | 163.6 | 164.1 | 166.8 | 169.9 | 169.9 | 170.5 | 172.0 | 172.6 | 170.5 | 169.4 | 168.3 |
| 42.5° | 176.8 | 177.9 | 180.0 | 183.2 | 183.7 | 183.7 | 185.8 | 186.3 | 185.3 | 183.2 | 182.1 |
| 45° | 192.7 | 193.8 | 196.9 | 200.1 | 200.1 | 199.0 | 202.2 | 204.9 | 202.8 | 199.6 | 198.5 |
| 47.5° | 211.2 | 212.3 | 216.5 | 219.2 | 220.2 | 217.6 | 222.3 | 225.5 | 222.9 | 220.8 | 218.6 |
| 50° | 233.5 | 235.6 | 239.8 | 244.0 | 243.0 | 239.8 | 246.2 | 249.9 | 248.3 | 243.5 | 241.9 |
| 52.5° | 257.3 | 258.9 | 267.3 | 271.6 | 271.6 | 267.9 | 276.3 | 279.5 | 274.7 | 268.4 | 266.3 |
| 55° | 289.6 | 289.0 | 294.9 | 304.4 | 308.1 | 304.4 | 311.3 | 312.3 | 306.0 | 300.7 | 297.0 |
| 57.5° | 322.9 | 324.0 | 331.9 | 340.9 | 346.2 | 350.4 | 350.4 | 347.8 | 338.8 | 328.7 | 326.6 |
| 60° | 361.6 | 364.7 | 374.3 | 385.9 | 396.5 | 402.3 | 393.3 | 388.0 | 374.3 | 365.8 | 362.6 |
| 62.5° | 404.4 | 408.7 | 423.0 | 442.0 | 459.0 | 470.6 | 455.8 | 441.0 | 423.5 | 410.3 | 408.2 |
| 65° | 417.7 | 421.4 | 449.4 | 490.7 | 540.5 | 568.0 | 520.9 | 485.4 | 444.2 | 416.6 | 413.4 |
| 67.5° | 388.6 | 390.2 | 425.6 | 496.6 | 596.6 | 679.7 | 576.0 | 487.0 | 424.0 | 384.3 | 382.2 |
| 70° | 288.0 | 300.2 | 346.7 | 436.2 | 587.1 | 724.2 | 559.6 | 423.0 | 334.6 | 286.9 | 276.9 |
| 72.5° | 168.9 | 166.2 | 201.7 | 289.6 | 479.6 | 642.7 | 455.3 | 286.9 | 205.9 | 169.9 | 162.0 |
| 75° | 66.2 | 67.2 | 84.2 | 133.9 | 271.6 | 428.3 | 272.6 | 135.0 | 75.2 | 61.4 | 60.9 |
| 77.5° | 22.8 | 23.3 | 25.4 | 32.3 | 87.3 | 176.8 | 90.0 | 32.8 | 24.9 | 26.5 | 27.0 |
| 80° | 14.3 | 13.8 | 15.4 | 15.9 | 19.1 | 34.9 | 20.6 | 16.9 | 16.4 | 16.4 | 16.9 |
| 82.5° | 7.4 | 7.9 | 10.6 | 11.1 | 11.6 | 13.2 | 13.2 | 12.7 | 11.1 | 8.5 | 7.4 |
| 85° | 4.8 | 3.7 | 7.4 | 7.9 | 7.4 | 6.9 | 8.5 | 9.5 | 8.5 | 4.8 | 5.3 |
| 87.5° | 2.1 | 2.1 | 3.7 | 3.7 | 3.7 | 2.6 | 3.7 | 5.3 | 5.3 | 2.1 | 2.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)